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Wrenches for unscrewing broken muts. Avt.transp. 40 no.5:53
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	AUTHOR: Arzhanov, I. M.; Boregovkin, A. V.; Bryanov, I. I.; Buyanov, P. V.; Zaloguyev, S. N.; Koman'shchikov, Yu. V.; Kovalev, V. V.; Krasovskiy, A. S.; Zaloguyev, S. V.; Klasov, A. N.; Nikitin, A. V.; Nistratov, V. V.; Poruchikov, Ye.	. A.;
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ACC NR. AT6036480 external respiration of the cosmonauts. Physical exercises and orthostatic tests were included to detect earlier signs of physiological shifts. Examinations were carried out before and after training in the ship, where certain conditions of flight were simulated, and also two weeks. before flight. Postflight examination was begun fifteen minutes after landing and was continued for the first four days after the flight and also two weeks later. After landing, the cosmonauts were active, looked somewhat excited, and complained of general fatigue. They were found to have hyperemia of the mucosa of the upper respiratory tract and conjunctivitis. Komarov' s weight dropped by 2.6%, Feoktistov' s weight dropped by 4%, and Yegorov's by 3.9%. Weight loss was determined by Zhdanov to be due to water and fat loss. Neurological examination revealed a light swaying in the Romberg position, a tremor of the fingers, and increased perspiration. In addition, Yegorov showed a contraction of the retinal arteries. Disruption of vision and vestibular difficulties were not noted. Changes in EEG indicated an increase in inhibitory processes in the cortex of the brain. A diminution in work capacity was established by Card 2/4 

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•	psychological experiments (increase in the number of mistakes, increas in latent periods).	•	<b>D</b> .	
	Indices of cardiovascular activity during rest did not exceed wide norms. However, an increase in pulse frequency was noted (Komarov up to 96, Feoktistov up to 100, and Yegorov up to 94 beats/min), as well as moderate drop in arterial pulse pressure at the expense of an increase in diastolic pressure. All three cosmenauts, when subjected			8
	to exercise, showed a significant increase in the pulse rate and inertia in the stroke volume. Feoktistov and Yegorov showed a significant diminution in the heart stroke volume and minute circulation of the blood during the passive orthostatic test. This could indicate a discuption of the venous inflow to the heart.	1		
	Postflight blood examinations indicated neutrophilic leukocytosis and eosinopenia. Urine was found to contain significant quantities of		· ·	
	salts, chiefly urates, single erythrocytes (in the field of vision), and an increase in the excretion of 17-oxycorticosteroids. Eosinopenia, an increase in excretion of products of hormone decomposition, indicated		•	
	the development of a stress reaction in cosmonauts. Since some of the indications found on the flight were also found after training in the train.			

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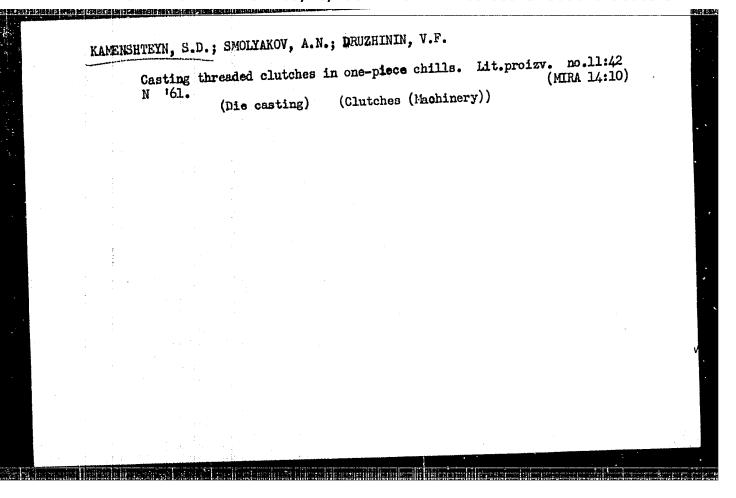
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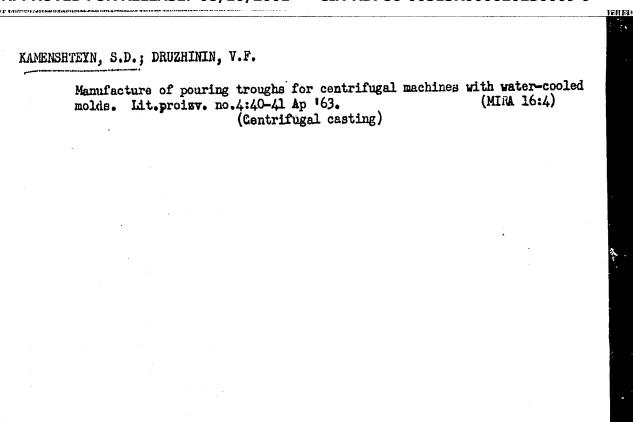
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